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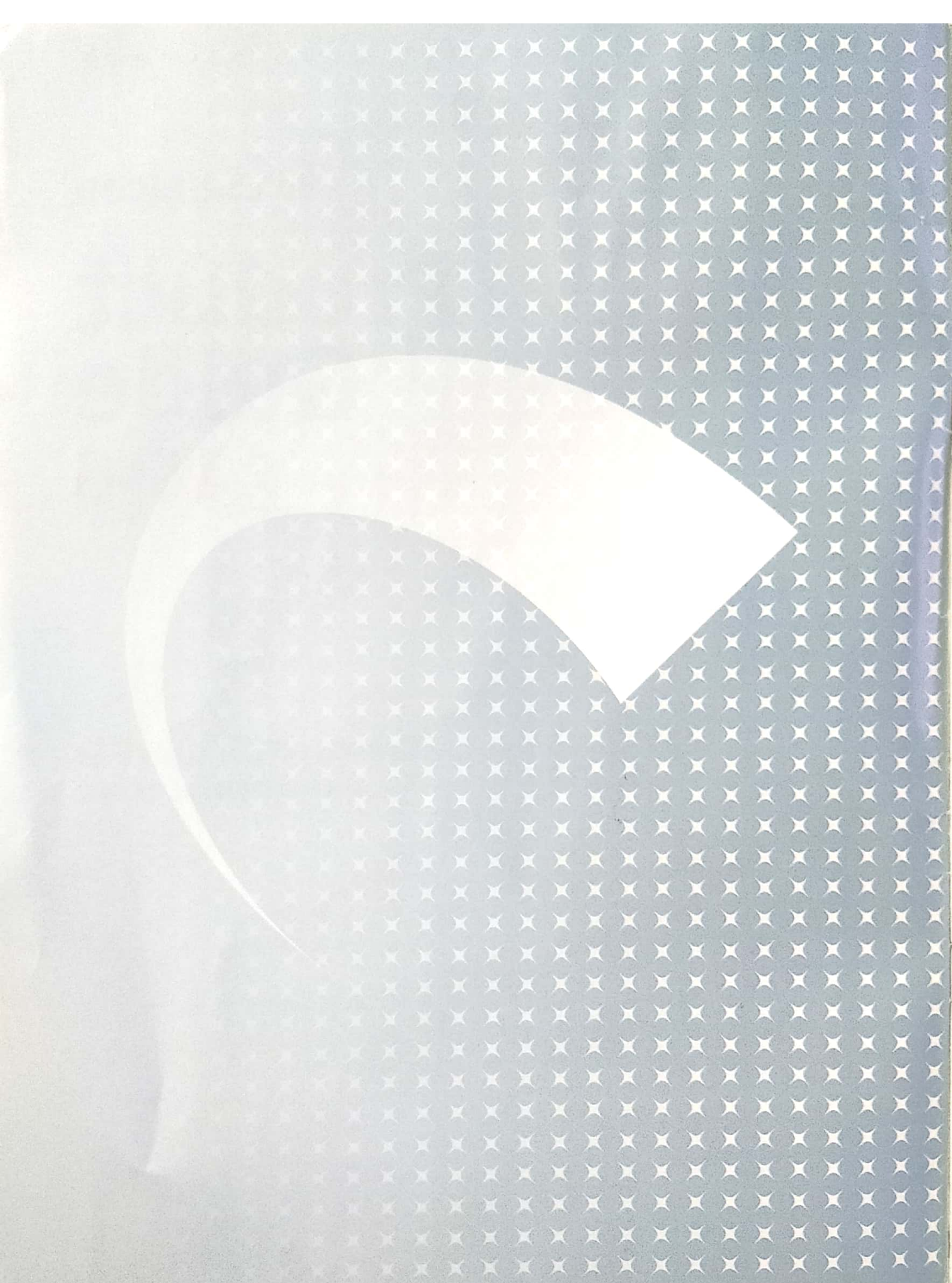


Product Guide 2016

**Creative Design For
Semiconductors**



Automotive
Power Management
LED Lighting & Display Driver
Interface
Analog & Mixed Signal
Standard Logic
www.iksemi.com



SEMICONDUCTOR PRODUCTS 2016

IC Design & Manufacture

- Automotive
- Power Management
- LED Lighting & Display Driver
- Interface
- Analog & Mixed Signal
- Standard Logic





건실한 국내 제조기반을 바탕으로
 확실한 품질과 경쟁력 있는 가격
 안정된 납기를 이미 실현하고 있습니다

Automotive

- Automotive Motor Driver
- Automotive Digital Clock
- Automotive LDO
- Automotive Communication
- Automotive ICs

Power Management

- Ground Fault Interrupters
- Motor Controller
- PWM & SMPS Controller
- Power Factor Controller
- Transistor Array ICs
- Chager ICs
- Transistor
- IGBT Gate Driver
- DC-DC Converter
- Voltage Regulator
 - Low Dropout Voltage Regulators
 - Positive Voltage Regulators
 - Adjustable Voltage Regulators
 - Switching Voltage Regulators
- Precision Low Voltage Reference
- Voltage Detector
- Reset ICs
- Reset ICs (Reference Data)

LED Lighting & Display Driver

- LED/LCD Display
- LED Lighting
- VFD Drivers

Interface

- RS-232
- RS-485
- Isolator
- Transmitters & Receivers
- UART

Analog & Mixed Signal

- Fire Detector
- Telephone ICs
 - Telephone One-Chip Solution
 - Pulse and Tone/Pulse Dialers
 - Speaker Intergrated Circuits
 - Tone Telephone Ringers
- Operational Amplifier & Comparator
 - Operational Amplifiers
 - Comparators
- ICs for Audio Systems
- Timers
- Real Time Clock ICs
- Melody ICs

Standard Logic

- IW4000B Series
- IN74HCXXXX Series
- IN74HCTXXX Series
- IN74XXX Series
- IN74LSXXX Series

LED Lighting & Display Driver LED

반도체설계 전문회사의 집약된 노하우로
 밝은 LED세상을 열어 드립니다

- Analog & Mixed Signal 반도체설계의 전문기술 축적은
- 전력용 반도체는 물론, 녹색산업 및 LED 솔루션분야
- Customixed IC 개발로 이어지고 있습니다.
- 이러한 자신감을 바탕으로 LED IC 라인업을 구축하여
- 100% 국산화, 나아가 세계화를 통해 LED솔루션의
- 선구자적 자세로 밝은 LED세상을 열어 가겠습니다.

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Automotive Motor Driver

Part	Pin to Pin Compatibility	Function	Package
IL33091A	MC33091A	High-Side TMOS Driver	DIP-8, SOP-8
IK8508	TDA3629	Head Lamp Leveling Driver	PDSO-14
IK8509	IK ASIC OWN	Power Folding for Side Mirror	QFN-16

Automotive Digital Clock

Part	Pin to Pin Compatibility	Function	Package
IN7100	S5G5127B (KS5127B)	CMOS Automotive Digital Clock Circuit (DUTY : 1, 1/4, 1/8, 1/16)	DIP-40, MQFP-44

Automotive LDO

Part	Pin to Pin Compatibility	Function	Package
ILE4250G	TLE4250G	Low-Drop Voltage Tracker (50mA) : Reverse Polarity Protection	TO-263-5
ILE4263	TLE4263	Low-Drop Voltage Regulator (5V / 200mA)	PDSOP-14
ILE4264-2G	TLE4264-2G	Low-Drop Voltage Regulator (5V / 100mA) : Reverse Polarity Protection	SOT-223
ILE4270G	TLE4270G	Low-Drop Voltage Regulator (5V / 550mA) : Reverse Polarity Protection	TO-263-5
ILE4275	TLE4275	Low Dropout Voltage Regulator (5V / 400mA)	TO-263-5, TO-252-5
ILE4276	TLE4276	Low Dropout Voltage Regulator (5V,8.5V,12V,ADJ / 400mA)	TO-263-5, TO-252-5
ILE4278	TLE4278	Low-Drop Voltage Regulator (5V / 200mA)	PDSOP-14
ILE4279-4G	TLE4279-4G	Low-Drop Voltage Regulator (5V / 150mA)	PDSOP-14
IK4993*	L4993	Low-Drop Voltage Regulator (5V / 150mA)	SOP-8, SOP-20

* Under Development

Automotive

Automotive Communication

Part	Pin to Pin Compatibility	Function	Package
IL33290	MC33290	ISO K Line Serial Link Interface	SOP-8
ILA82C251	PCA82C251	CAN Transceiver for 24V Systems	SOP-8
IN2515	MCP2515	CAN Controller with SPI Interface	SOP-18
IK8301*	TJA10XX	CAN Transceiver for 12V Systems	SOP-14
IK8302*	TJA10XX	LIN Transceiver for 12V Systems	SOP-8

* Under Development

Automotive ICs

Part	Pin to Pin Compatibility	Function	Package
IL33193	MC33193	Automotive Direction indicator RS=20mW , Fn=2.2, Duty Cycle (Normal Operation) 45~55%, Duty Cycle (One 21 W Lamp Defect) 35~45%, Defect Lamp Detector Threshold 42.5~56, RSS=220W	DIP-8, SOP-8
IL33193-03	U643B	Automotive Direction indicator RS=30mW, Fn=2.5, Duty Cycle (Normal Operation) 45~55%, Duty Cycle (One 21 W Lamp Defect) 35~45%, Defect Lamp Detector Threshold 75~95, RSS=220W, Short Circuit Detector Threshold	DIP-8, SOP-8
IL33197A	MC33197A	Automotive Wash Wiper Timer Output Clamp Voltage ($I_{out}=20\text{Ma}$) 18~22V, Internally incorporated Zener diode 30V	DIP-8, SOP-8
IK642B	U642B	Interval- and Wipe/ Wash Wiper Control IC Pre Wash Delay 300ms	DIP-8, SOP-8
IL6083	U6083B	PWM Power Control IC with Interference Suppression	DIP-8
IL1055		Two-channel ignition controller	SOP-16
IL8190	CS8190ENF16	Precision Air-Core Tach/Speedo Driver with Return to Zero	DIP-16, SOP-20
IL1815	LM1815	Adaptive Variable Reluctance Sensor Amplifier	DIP-14, SOP-14
IN9014		For light control relay IC	DIP-8
IK8001	IK ASIC OWN	Alternator Regulator with RVC Protocol	Chip
IK8010*	IK ASIC OWN	HID Lamp Driver	LQFP-48

* Under Development

Ground Fault Interrupter

Part	Pin to Pin Compatibility	Function	Package
IL7101N/D	GL7101, KA2803	Ground Fault Interrupters Earth Leakage Current Detector	DIP-8, SOP-8
IK7102N/D	Own	Ground Fault Interrupters Earth Leakage Current Detector	DIP-8, SOP-8
IK7104N/D	Own	EMI Enhanced Ground Fault Interrupters	DIP-8, SOP-8
IL54123N/D	M54123	Ground Fault Interrupters Earth Leakage Current Detector	DIP-8, SOP-8
IL4145AN/AD	RV4145A	Low Power Ground Fault Interrupters	DIP-8, SOP-8

Motor Controller

Part	Pin to Pin Compatibility	Function	Package
IL33035N/DW	MC33035	Brushless DC Motor Controller	DIP-24, SOP-24
IK6501SD	TB6551	3-Phase Full-Wave Sine-Wave PWM Brushless Motor Controller	SSOP-24
IK6019AD	OWN	High-Voltage High-Current Stepper Motor Driver	SOP-16

PWM & SMPS Controller

Part	Pin to Pin Compatibility	Function	Package
IL494N/D IL494AN/AD	68QFNGL494, KA7500	Pulse-Width-Modulation Control Circuit	DIP-16, SOP-16
IL3842N/D	UC3842	Current Mode PWM Controller	DIP-8, SOP-8
IL3843N/D	UC3843	Current Mode PWM Controller	DIP-8, SOP-8
IL6083N	U6083B	PWM Control with Interference-Suppression	DIP-8
IL44608N	MC44608	SMPS Controller	DIP-8

Power Factor Controller

Part	Pin to Pin Compatibility	Function	Package
IL34262N/D	MC34262	Power Factor Controller	DIP-8, SOP-8
ILA3354N	TFA3354	IC for Electronic Ballasts	DIP-8

Transistor

Part	Pin to Pin Compatibility	Function	Package
SL1001ET/PT	B772	Audio Frequency Power Amplifier (PNP)	SOT-223, SOT-89
SL1002ET/PT	D882	Audio Frequency Power Amplifier (NPN)	SOT-223, SOT-89
IK 1163*	RJN1163	Electret Capacitor Microphone Applications(JFET)	Bare Chip

* Under Development

Power Management

Transistor Array ICs

Part	Pin to Pin Compatibility	Function	Package
ILN2003AN/AD ILN2004N/D	ULN2003A/04A, TD62003A/04A/ KID65003/04	High-Voltage High-Current Darlington Transistor Arrays	DIP-16, SOP-16
IK62083N/DW IK62084N/DW	ULN2803/04 TD62083/84 KID65083/84	8 CH Darlington Sink Driver	DIP-18/20 SOP-18/20
IK62783N/D IK62784N/D	TD62783/84 KID65783/84	8 CH High-Voltage Source Driver	DIP-18/20 SOP-18/20

Charger ICs

Part	Pin to Pin Compatibility	Function	Package
IK3051S2T	TSM1051	Constant Voltage & Constant Current Controller For Battery Chargers and Adaptors (Vcc 2.5~12V, Vref 1%)	SOT-23-6
IK3051AS2T	TSM1051A	Constant Voltage & Constant Current Controller For Battery Chargers and Adaptors (Vcc 2.5~12V, Vref 0.5%)	SOT-23-6
IK3134/35QF	ASIC	LDO with OVP for Battery Charger	Bare Chip
KL103N/D	TSM103	Dual Operational Amplifier and Voltage Reference	Dip-8, SOP-8
IK104*	OWN	Dual Operational Amplifier and Voltage Reference	Dip-8, SOP-8

* Under Development

IGBT Gate Driver

Part	Pin to Pin Compatibility	Function	Package
IL33153N/D	MC33153P	Single IGBT Gate Driver	DIP-8, SOP-8

DC/DC Converter

Part	Pin to Pin Compatibility	Function	Package
IL34063AN/AD	MC34063	DC-to-DC Converter	DIP-8, SOP-8
IK5302D	Own	3A DC-DC Switching Voltage Regulator (Fixed 1MHz)	ESOP-8
IK5304D*	Own	6A DC-DC Switching Voltage Regulator	QFN-24
IK5305D*	Own	8A DC-DC Switching Voltage Regulator	QFN-24
IK1482	MP1482	2A, 18V Synchronous Rectified, Step-Down Converter	DIP-8, SOP-8
IK1583	MP1583	3A, 23V, 385KHz Asynchronous Step-Down Converter	DIP-8, SOP-8
IK1591	MP1591	2A, 32V, 330KHz Step-Down Converter	DIP-8, SOP-8
IK2307	MP2307	3A, 23V, 340KHz Synchronous Rectified, Step-Down Converter	DIP-8, SOP-8

* Under Development

Power Management

Low Dropout Voltage Regulators

Part	Pin to Pin Compatibility	Output Voltage, V	Output Current, A	Output Voltage Tolerance, %	Tested Operating Junction Temp. Range, °C	Package
IL1117C-XX ET/D0T	AMS1117	1.2, 1.25(adj), 1.5, 1.8, 2.5, 2.85, 3.3, 5.0	1.0	±2	Tj = -40 ~ 125	SOT-223, TO-252
IL233-XXPT/ET	OWN	1.25 (adj), 1.5, 1.8, 2.5, 2.85, 3.3, 5.0	0.5	±2	Tj = -40 ~ 125	SOT-89, SOT-223
IL5219	Micrel Device	ADJ, 1.5, 1.8, 2.5, 3.3, 5.0	1.0	±2	Tj = -20 ~ 125	Bare Chip
IL1950	FAN1950	2.5	1.5	±2.5	Tj = -40 ~ 125	Bare Chip
IL1951	FAN1951	1.8	1.5	±2.5	Tj = -40 ~ 125	Bare Chip
IL2931-XX	LM2931Z-X	3.3, 5, 9	0.1	±5	Tj = -40 ~ 125	TO-92, SOT-223
IL1084-XXD2T	LT1084	1.25 (adj), 1.8, 3.3, 5.0	5.0	±2	Tj = -40 ~ 125	Bare Chip
IL1085-XXD2T	LT1085	1.2, 1.25(adj), 1.5, 1.8, 2.5, 2.85, 3.3, 3.6, 5.0	3.0	±2	Tj = -40 ~ 125	Bare Chip
IK1589D0T/D2T	FAN1589	1.2	2.7	±2	Tj = -10 ~ 125	TO-252, TO-263
IL3480-XXLF/PT	LM3480	3.3, 5.0	0.1	±5	Tj = -40 ~ 125	TO-92, SOT-89

Positive Voltage Regulators

Part	Pin to Pin Compatibility	Output Voltage, V	Output Current, A	Output Voltage Tolerance, %	Tested Operating Junction Temp. Range, °C	Package
IL78XX	MC78XX	5, 6, 8, 9, 10, 12, 15, 18, 24	1.0	±5	Tj = -40 ~ 125	Bare Chip
IL78LXXLF/PT/DT	MC78LXX	5, 6, 8, 9, 10, 12, 15, 18, 24	0.1	±5	Tj = -40 ~ 125	TO-92, SOT-89, SOP-8

Adjustable Voltage Regulators

Part	Pin to Pin Compatibility	Function	Package
IL317D0T/D2T	LM317	Adjustable Output Positive Voltage Regulator (1.5A)	TO-252, TO-263
IL317L-LF/ET/PT	LM317L	Adjustable Output Positive Voltage Regulator (100mA)	TO-92, SOT-223/89

Power Management

Switching Voltage Regulators

Part	Pin to Pin Compatibility	Output Voltage, V	Output Current, A	Output Voltage Tolerance, %	Tested Operating Junction Temp. Range, °C	Package
IL2576-XX KB/D2T	LM2576-XX	3.3, 5.0, 12, 15, ADJ	3.0	4	T _j = -40 ~ 125	TO-220-5L, TO-263-5L
IL2596-XX KB/D2T	LM2596-XX	3.3, 5.0, 12, ADJ	3.0	4	T _j = -40 ~ 125	TO-220-5L, TO-263-5L
IK1509-XXDT	AP1509-XX	3.3, 5.0, 12, ADJ	2.0	3	T _j = -40 ~ 125	SOP-8

Precision Low Voltage Reference

Part	Pin to Pin Compatibility	Function	Package
TL431Z-LF/ST/PT/DT	TL431	Programmable precision references	TO-92, SOT-23 SOT-89, SOP-8
TL432LF/LS	TL432	Programmable precision references	TO-92

Voltage Detector

Part	Pin to Pin Compatibility	Detecting Voltage, V	Input Voltage, V	Output Current, A	Detecting Voltage Tolerance, %	Tested Operating Ambient Temp. Range, °C	Package
IL75XXLF/ ST/PT	HT70xx	2.2, 2.4, 2.55, 2.7, 2.8, 3.3, 3.9, 4.2, 4.7, 5.0	1.2~5.5	0.03	2.0	T _a = -10~70	TO-92, SOT-23, SOT-89
IL70XXLF/ PT	KIA70xx	2.1, 2.3, 2.7, 2.9, 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.9, 4.2, 4.5	-0.3~15	0.02	2.0	T _a = -10~70	TO-92, SOT-89

Reset ICs

Part	Pin to Pin Compatibility	Function	Package
IN1232N/D	DS1232	Low Power Micro Monitor Chip	DIP-8, SOP-8
IN1705N/D, IN1705RN/RD	DS1705	Micro Monitor (RN,RD - Push-Pull Reset Output)	DIP-8, SOP-8
IN1706N/D, IN1706SRN/SRD	DS1706S	Micro Monitor (SRN, SRD - Push-Pull Reset Output)	DIP-8, SOP-8
IN1708N/D	DS1708	Micro Monitor Chip	DIP-8, SOP-8

Reset ICs (Reference Data)

Parameter	IN1232N IN1232D	IN1705N IN1705D	IN1705RN IN1705RD	IN1706N IN1706D	IN1706RN IN1706RD	IN1708N IN1708D
Supply Voltage, V	4.5~5.5	1.2~5.5	1.2~5.5	1.2~5.5	1.2~5.5	1.2~5.5
Nominal Reset Threshold, V	4.37	4.65	4.65	2.93	2.93	4.40
Min Reset Pulse Width, ms	250	100	100	130	130	130
Push-Pull RESET Output	L, H	L	H	L	H	L, H
Watchdog	•	•	•	•	•	
Nominal Watchdog Timeout Period (s), if available	0.15	1.6	1.6	1.6	1.6	
Separate Watchdog Output		•	•	•	•	
Power-Fail Comparator/ Reset Input		•	•	•	•	•
Manual-Reset Input	•	•	•	•	•	•
Supply Current in Operating Mode, uA, max (typ)	2000 (500)	350 (100)	350 (100)	50	50	50
Operating Temperature, C	-10 ~ +70	-40 ~ +85				
Package	DIP-8 SOP-8	DIP-8 SOP-8	DIP-8 SOP-8	DIP-8 SOP-8	DIP-8 SOP-8	DIP-8 SOP-8

Lighting & Display Driver

LED/LCD Display

Part	Pin to Pin Compatibility	Function	Package
IK2102	Own	LED Driver with Key Scan Function, (Common Cathode Type) 4 digits x13 segments to 7 digits x 10 segments	SOP-28
IK2107	Own	LED Display Driver IC (12/9 segment output, 7 to 4 grid output)	SOP-24
IK2108	Own	LED Display Driver (Common Anode Type) 8 Columns x 14 Rows to 12 Columns x 10 Rows	SOP-32
IK6207	Own	LED Display Driver with Touch Switch (Common Cathode Type) 4 digits x 13 segments or 7 digits x 10 segments	TQFP-48
IK6208	Own	LED Display Driver (Common Anode Type) - Platform Base IK6208TQ : 8 digits x 14 segments (3 Key Scan / 2CH PWM)	TQFP-48
IK6486	GM6486	33 Output LED Driver	PLCC-44
KL7107	ICL7107	3 1/2 - Digit LED Display, A/D Converters	DIP-40

LED Lighting

Part	Pin to Pin Compatibility	Function	Package
IK2802	MBI1802	Constant-Current LED Driver (2ch)	ESOP-8
IK2804	MBI1804	Constant-Current LED Driver (4ch)	ESOP-8
IK2816	MBI1816	Constant-Current LED Driver (16ch)	TSSOP-20
IL9910	HV9910	Universal High Brightness LED Driver	SOP-8
IL9961	HV9961	High Stability LDE Driver	SOP-8
IL9967*	HV9967	LED driver IC with built in MOSFET, 8V ~ 60V Input Voltage	SOP-8
IL9921/22/23	HV9921/22/23	3-PIN Switch-Mode LED Lamp Driver ICs With Build-in MOSFET	TO-92, SOT-89
IK402U	BCR402U	CONSTANT CURRENT LINEAR LED DRIVER	SOT-23-6
IK2306	Own	60mA Switch-Mode LED Driver IC	SOT-89
IK2312	Own	120mA Switch-Mode LED Driver IC	TO-252
IK3004	Own	22mA Current Limit IC	SOT-23-5
IL1937	LT1937	White LED Step-Up Converter	SOT-25, SC70
IL7150D0T*	AMC7150	Power LED Driver, 1.5A	TO-252-5L
IL7150AD0T*	AMC7150	Power LED Driver, 0.8A	TO-252-5L

* Under Development

VFD Drivers

Part	Pin to Pin Compatibility	Function	Package
IN7100	S5G5127B (KS5127B)	CMOS Automotive Digital Clock Circuit (DUTY : 1, 1/4, 1/8, 1/16)	DIP-40 MQFP-44

RS-232

Part	Pin to Pin Compatibility	Function	Package
IN75232N/DW	CD75232	RS-232-D Interface 1 Chip IC	DIP-20, SOP-20
ILX232N/D	MAX232	Drivers/Receiver (RS-232) (2/2) (V _{cc} = 5V)	DIP-16, SOP-16
ILX3232N/D/TSD	MAX3232	Drivers/Receiver (RS-232) (2/2) (V _{cc} = 3.3 to 5.5V)	DIP-16, SOP-16, TSSOP-16
ILX3221EN/ED	MAX3221E	15kV ESD -Protected, 1A, 3.0V to 5.5V, 250kbps, RS-232 Transceivers with Auto-Shutdown	DIP-16, SOP-16
ILX3226N/D/TSD*	MAX3226	1A Supply Current, 3.0V to 5.5V, 1Mbps RS-232 Transceivers with Auto-Shutdown Plus	DIP-16, SOP-16, TSSOP-16

* Under Development

RS-485

Part	Pin to Pin Compatibility	Function	Package
ILX485N/D	MAX485	Drivers/Receiver (RS-485) - 5.0V	DIP-8, SOP-8
ILX3485N/D	MAX3485	Drivers/Receiver (RS-485) - 3.3V	DIP-8, SOP-8
ILX75176N/D	SN75176	Drivers/Receiver (RS-485) - 5.0V	DIP-8, SOP-8
ILX3085N/D	MAX3085E	Drivers/Receiver (RS-485) - 5.0V	DIP-8, SOP-8

Isolator

Part	Pin to Pin Compatibility	Function	Package
ILX488-3D	OWN	Low-Power Triple-Channel Digital Isolator	SOP-16

Transmitters & Receivers

Part	Pin to Pin Compatibility	Function	Package
IN1488N/D	MC1488D	4-Channel Transmitter for Serial Interface	DIP-14, SOP-14
IN1489AN/AD	MC1489ADM	4-Channel Receiver for Serial Interface	DIP-14, SOP-14
INS82C50AN/D	INS82C50A	Microcontroller for Serial Interface	DIP-40
IN82C55AN/BN	82C55A	Programmable Peripheral Interface	DIP-40
INF8574AN/AD	PCF8574	Remote 8-Bit I/O Expander for I2C-Bus	DIP-16, SOP-16

Interface

UART

Part	Pin to Pin Compatibility	Function	Package
IN16C554PL- TQ64/PL68/TQ80	TL16C554	Enhanced Quadruple Version of the 16C550 UART (Universal Asynchronous Receiver Transmitter) Operating Voltage 5.0V Clock Frequency 16MHz Operating Temperature 0~70°C	64-TQFP 68-PLCC 80-TQFP
IN16C554A- TQ64/PL68/TQ80	TL16C554	Enhanced Quadruple Version of the 16C550 UART (Universal Asynchronous Receiver Transmitter) Operating Voltage 3.3V Clock Frequency 16MHz Operating Temperature 0~70°C	64-TQFP 68-PLCC 80-TQFP
IN16C1054- TQ64/PL68/TQ80		Quad UART with 256-byte TX/RX FIFO Operating Voltage 3.3V Data rate up to 5Mbps Clock Frequency up to 80MHz	64-TQFP 68-PLCC 80-TQFP
IN16C1058-TQ		Octal-UART Controller with 256-Byte FIFO (8 Port)	128-TQFP

Analog & Mixed Signal

Fire Detector

Part	Pin to Pin Compatibility	Function	Package
IK7001A	Own	Optical Smoke Detector with voice	LQFP-32
IK7002/A	Own	OP AMP for Fire Detector	SOT-23-5
IK7003A	Own	Mono Class-D Speaker Amplifier	SOP-8
IK7005A/B	Own	Digital-analog IC for detection the rising temperature before the fire situation	SOP-16
IK7008SD	Own	Photoelectric Smoke Detector Processor	TSSOP-24

Telephone One-Chip Solution

Part	Pin to Pin Compatibility	Function	Package
IL2533AN/ADW	AS2533	Multi-Standard CMOS Singl Chip Telephone IC with Dual Soft Clipping	DIP-28, SOP-28

Pulse and Tone/Pulse Dialers

Part	Pin to Pin Compatibility	Function	Package
IL91214AN/AD	UMS91214	Tone/Pulse Dialer with Flash Function	DIP-16, SOP-16 DIP-18, SOP-18

Speaker Integrated Circuits

Part	Pin to Pin Compatibility	Function	Package
KL34018N/DW	MC34018	Voice Switched Speakerphone Circuit	DIP-28, SOP-28
IL34118N/DW	MC34118 U4082	Voice Switched Speakerphone Circuit	DIP-28, SOP-28
IL34119N/D	MC34119 U4083	Telephone Audio Amplifier	DIP-8, SOP-8
IL5009N/D	DBL5009	Speaker Amplifier	DIP-8, SOP-8
ILA1062N/D ILA1062AN/AD	TEA1062 TEA1062A	Low Voltage Transmission Circuit with Dialer Interface	DIP-16, SOP-16
IL6965N/D	GL6965	Telephone Speech Network with Dialer Interface	DIP-20, SOP-20

Tone Telephone Ringers

Part	Pin to Pin Compatibility	Function	Package
IL2411N/D	KA2411	Two-Tone Telephone Ringer	DIP-8, SOP-8
IL2418N/D	KA2418 L1240	Two-Tone Telephone Ringer with Diode Bridge	DIP-8, SOP-8
IL6840N/D	GL6840A GL6840B	Two-Tone Telephone Ringer with Diode Bridge	DIP-8, SOP-8

Analog & Mixed Signal

Operational Amplifiers

Part	Pin to Pin Compatibility	Function	Package
Dual OP Amp			
IL358N/D	LM358	Dual Operational Amplifier	DIP-8, SOP-8
IL2904N/D	LM2904		
IL4558N/D	LM4558	Dual Operational Amplifier	DIP-8, SOP-8
IL1458N/D	NJM1458	Dual General Purpose Operational amplifier	DIP-8, SOP-8
IL4560N/D	NJM4560	Dual Operational Amplifier	DIP-8, SOP-8
IL4580N/D	NJM4580, LM833	Dual Operational Amplifier	DIP-8, SOP-8
KL103N/D	TSM103	Dual Operational Amplifier and Voltage Reference	DIP-8, SOP-8
Quad OP Amp			
IL324N/D	LM324	Quad Operational Amplifier	DIP-14, SOP-14
IL2902N/D	LM2902		
Programmable Operational Amplifier			
IL1776CN/CAN IL1776CD/CAD	MC1776C	Micro-power Programmable Operational Amplifier CAN, CAD (T _A =-40~-85°C)	DIP-8, SOP-8
Precision Operational Amplifier			
IL9002N/D	OP-07A	Precision Operational Amplifier	DIP-8, SOP-8
IL9002AN/D	OP-07	Precision Operational Amplifier	DIP-8, SOP-8
Rail to Rail Operational Amplifier			
IL8515*	AD8515	1.8V Low Power CMOS OP Amp.	SOT-23
IL8541	AD8541	CMOS General-Purpose Amplifiers	SOT-23
IL8615*	AD8615	Precision, 20MHz, CMOS, OP Amp.	SOT-23

* Under Development

Comparators

Part	Pin to Pin Compatibility	Function	Package
Dual Comparator			
IL393N/D	LM393	Dual Comparator	DIP-8, SOP-8
IL2903N/D	LM2903		
Quad Comparator			
IL339N/D	LM339	Quad Comparator	DIP-14, SOP-14
IL2901N/D	LM2901		

Analog & Mixed Signal

ICs for Audio Systems

IC's Class	Part	Pin to Pin Compatibility	Supply Voltage, V	Power, W	Gain, dB	Load Resistance, Ohm	Package
Low Power	IL34119N/ D <i>Mono</i>	MC34119N	2...16	0.25	80	8; 16; 32	DIP-8, SOP-8
	IL386N/ D <i>Mono</i>	LM386	4.0...12.0	1.0	26...42	8.0 (4.0; 16)	DIP-8, SOP-8
	ILA7050N <i>Mono/Stereo BTL</i>	TDA7050	1.6...6.0	1x0.140 2x0.075	32 (mono) 26 (stereo)	32 (16; 64)	DIP-8
	ILA7052N <i>Mono</i>	TDA7052	3.0...18.0	1.2	38...40	8.0	DIP-8
	ILA7053N <i>Stereo BTL</i>	TDA7053	3.0...18.0	2x1.0	38...40	8.0 (16; 25)	DIP-16
	KL7496LN <i>Stereo BTL with DC Control</i>	TDA7496L	10.0...18.0	2x2.0	30	8.0	DIP-20
Middle Power	ILA7056 <i>Mono</i>	TDA7056	3.0...18.0	3	39...42	16.0	SOT110-1
	ILA7056B <i>Mono with DC Control</i>	TDA7056B	4.5...18.0	5.0	39.5...41.5	16.0	SOT 110-1
Large Power	ILA1519B, B1,B1Q <i>Mono/Stereo</i>	TDA1519B	6.0...18.0	12 (mono) 2x6 (stereo)	45...47 (mono) 39...41 (stereo)	4.0 8.0	SIL-9P (SOT110-1, SOT131-2, SOT157-2)

Part	Pin to Pin Compatibility	Function	Package
KL6270N/D	SL6270	Audio amplifier and Voice operated Gain adjusting device(VOGAD)	DIP-8, SOP-8
KL3340N/D	MC3340	Electronic Attenuator : DC operated Volume Control	DIP-8, SOP-8
KL2822MN/D	TDA2822M	Dual Low Voltage Power Amplifier Mono/Stereo Audio Amplifier	DIP-8, SOP-8
IL5009N/D	DBL5009	Speaker Amplifier	DIP-8, SOP-8
IK7437Q	TDA7437	Digitally Controlled Audio Processor 4 Speaker Attenuator	QFP-44

Analog & Mixed Signal

Timers

Part	Pin to Pin Compatibility	Function	Package
INA8583N	PCF8583P	Clock Calendar with 256x8 Bit Static RAM with I ² C Bus	DIP-8
ILC555N/D	GLC555	Timer	DIP-8, SOP-8
ILC556N/D	GLC556	Dual Timer	DIP-14, SOP-14

Real Time Clock ICs

Part	Pin to Pin Compatibility	Function	Package
IN1307N/D	DS1307	64x8, Serial, IC Real -Time Clock	DIP-8, SOP-8
IN1363N/D	PCF8563, DS1208	Real-time clock/calendar with X-tal	DIP-8, SOP-8
IN141618N	MC141618	Real Time Clock Plus RAM	DIP-24

Melody ICs

Part (Pin to Pin Compatibility)	Maximum Number of Tunes (Number of Notes)	V _{DD} , V	I _{DD} , μ A In Mode of		Package
			Tune Play	Stop	
BT8028/LF/N	16(64)	1.3(3.3)	60	0.5	Bare chip TO-92, DIP-8
BT8031/LF/N	2(127)	1.3(3.3)	1	0.5	Bare chip TO-92, DIP-8

Part	Pin to Pin Compatibility	Function	Features	Package
BT8040N	BXA4240	Melody IC	<ul style="list-style-type: none"> ■ Two Sound Source with Envelope (CR envelope) ■ Maximum four Sound Source ■ 3~5V operating voltage ■ Can Drive an 8ohm Dynamic Loudspeaker if provided Externally with a transistor 	DIP-16

RFID ICs

Part	Pin to Pin Compatibility	Function	Package
IZ2803-5	OWN	Read/write transponder IC (write interface compatible with ATE5575M1)	Bare Chip
IZ2806-5	EM4100	Amplitude-modulated transponder IC	Bare Chip

IW4000B Series

CMOS

Part	Pin to Pin Compatibility	Function	Package
IW4001BN/BD	CD4001BN/BD	Quad 2-Input NOR Gate	DIP-14, SOP-14
IW4002BN/BD	CD4002BN/BD	Dual 4-Input NOR Gate	DIP-14, SOP-14
IW4006BN/BD	CD4006BN/BD	18-Bit Static Shift Register	DIP-14, SOP-14
IW4008BN/BD	CD4008BN/BD	4-Bit Full Adder	DIP-16, SOP-16
IW4011BN/BD	CD4011BN/BD	Quad 2-Input NAND Gate	DIP-14, SOP-14
IW4012BN/BD	CD4012BN/BD	Dual 4-Input NAND Gate	DIP-14, SOP-14
IW4013BN/BD	CD4013BN/BD	Dual D-Type Flip-Flop	DIP-14, SOP-14
IW4015BN/BD	CD4015BN/BD	Dual 4-Bit Static Shift Register	DIP-16, SOP-16
IW4016BN/BD	CD4016BN/BD	Quad Bilateral Switch	DIP-14, SOP-14
IW4017BN/BD	CD4017BN/BD	Decade Counter/Driver	DIP-16, SOP-16
IW4018BN/BD	CD4018BN/BD	Presetable Divide-by-N Counter	DIP-16, SOP-16
IW4019BN/BD	CD4019BN/BD	Quad AND-OR Gate	DIP-16, SOP-16
IW4020BN/BD	CD4020BN/BD	14-Bit Binary Divide Counter	DIP-16, SOP-16
IW4021BN/BD	CD4021BN/BD	8-Bit Shift Register	DIP-16, SOP-16
IW4022BN/BD	CD4022BN/BD	Divide-by-8 Counter/Divider	DIP-16, SOP-16
IW4023BN/BD	CD4023BN/BD	Triple 3-Input NAND Gate	DIP-14, SOP-14
IW4024BN, BD	CD4024BN, BD	Stage Ripple-Carry Binary Counter/Divider	DIP-14, SOP-14
IW4025BN/BD	CD4025BN/BD	Triple 3-Input NOR Gate	DIP-14, SOP-14
IW4027BN/BD	CD4027BN/BD	Dual J-K Flip-Flop	DIP-16, SOP-16
IW4028BN/BD	CD4028BN/BD	BCD-to-Decimal Decoder	DIP-16, SOP-16
IW4029BN/BD	CD4029BN/BD	Binary or BCD-Decade Counter	DIP-16, SOP-16
IW4030BN/BD	CD4030BN/BD	Quad Exclusive-OR Gate	DIP-14, SOP-14
IW4034BN/BDW	CD4034BN/BD	8-Bit Shift Register	DIP-24, SOP-24
IW4035BN/BD	CD4035BN/BD	4-Bit Parallel-In/Parallel-Out Shift Register	DIP-16, SOP-16
IW4040BN/BD	CD4040BN/BD	12-Bit Binary Counter	DIP-16, SOP-16
IW4042BN/BD	CD4042BN/BD	Quad Clocked D-Latch	DIP-16, SOP-16
IW4043BN/BD	CD4043BN/BD	Quad NOR R-S Latch (3-State)	DIP-16, SOP-16
IW4049BN/BD	CD4049BN/BD	Hex Buffer/Converter	DIP-16, SOP-16
IW4050BN/BD	CD4050BN/BD	Hex Buffer/Converter	DIP-16, SOP-16
IW4051BN/BD	CD4051BN/BD	8-Channel Analog Multiplexer/Demultiplexer	DIP-16, SOP-16
IW4052BN/BD	CD4052BN/BD	Dual 4-Channel Analog Multiplexer/Demultiplexer	DIP-16, SOP-16
IW4053BN/BD	CD4053BN/BD	Triple 2-Channel Analog Multiplexer/Demultiplexer	DIP-16, SOP-16
IW4059BN/BDW	CD4059BN/BD	Programmable Counter	DIP-24, SOP-24
IW4060BN/BD	CD4060BN/BD	14-Bit Binary Divide/ Counter	DIP-16, SOP-16
IW4066BN/BD	CD4066BN/BD	Quad Bilateral Switch	DIP-14, SOP-14
IW4068BN/BD	CD4068BN/BD	8-Input NAND Gate	DIP-14, SOP-14
IW4069UBN/UBD	CD4069UBN/UBD	Hex Inverter	DIP-14, SOP-14
IW4070BN/BD	CD4070BN/BD	Quad Exclusive-OR Gate	DIP-14, SOP-14
IW4071BN/BD	CD4071BN/BD	Quad 2-Input OR Gate	DIP-14, SOP-14
IW4072BN/BD	CD4072BN/BD	Dual 4-Input OR Gate	DIP-14, SOP-14
IW4073BN/BD	CD4073BN/BD	Triple 3-Input AND Gate	DIP-14, SOP-14
IW4075BN/BD	CD4075BN/BD	Triple 3-Input OR Gate	DIP-14, SOP-14
IW4077BN/BD	CD4077BN/BD	Quad Exclusive-NOR Gate	DIP-14, SOP-14
IW4081BN/BD	CD4081BN/BD	Quad 2-Input AND Gate	DIP-14, SOP-14
IW4093BN/BD	CD4093BN/BD	Quad 2-Input NAND Schmitt Trigger	DIP-14, SOP-14
IW4098BN/BD	CD4098BN/BD	Dual Monostable Multivibrator	DIP-16, SOP-16
IW40107BN/BD	CD40107BN/BD	Dual 2-Input NAND Buffer/Driver	DIP-14, SOP-14
IW4502BN/BD	CD4502BN/BD	Hex Inverter/Buffer	DIP-16, SOP-16

Standard Logic

IW4000B Series (continue)

CMOS

Part	Pin to Pin Compatibility	Function	Package
IW4503BN/BD	CD4503BN/BD	Hex Buffer	DIP-16, SOP-16
IW4511BN/BD	CD4511BN/BD	BCD-to-7-Segment Latch Decoder/Driver	DIP-16, SOP-16
IW4516BN/BD	CD4516BN/BD	Presetable Binary Up/Down Counter	DIP-16, SOP-16
IW4518BN/BD	CD4518BN/BD	Dual BCD Up Counter	DIP-16, SOP-16
IW4519BN/BD	CD4519BN/BD	Quad AND/OR Select Gate	DIP-16, SOP-16
IW4520BN/BD	CD4520BN/BD	Dual Binary Up Counter	DIP-16, SOP-16
IW4528BN/BD	CD4528BN/BD	Dual Monostable Multivibrator	DIP-16, SOP-16
IW4531BN/BD	NEF4531BN/BD	12-Bit Checker Tree	DIP-16, SOP-16
IW4541BN/BD	CD4541BN/BD	Programmable Timer	DIP-14, SOP-14
IW4543BN/BD	CD4543BN/BD	BCD-to-7-Segment Latch/Decoder/Driver for Liquid-Crystal Display	DIP-16, SOP-16
IW4585BN/BD	CD4585BN/BD	4-Bit Comparator	DIP-16, SOP-16

IN74HCXXXX Series

CMOS

Part	Pin to Pin Compatibility	Function	Package
IN74HC00AN/AD	MC74HC00AN/AD	Quad 2-Input NAND Gate	DIP-14, SOP-14
IN74HC02AN/AD	MC74HC02AN/AD	Quad 2-Input NOR Gate	DIP-14, SOP-14
IN74HC03AN/AD	MC74HC03AN/AD	Quad 2-Input NAND Gate, OC	DIP-14, SOP-14
IN74HC04AN/AD	MC74HC04AN/AD	Hex Inverter	DIP-14, SOP-14
IN74HCU04AN/AD	own	Unbuffered Hex inverter	DIP-14, SOP-14
IN74HC05AN/AD	SN74HC05AN/AD	Hex Inverter, OC	DIP-14, SOP-14
IN74HC08AN/AD	MC74HC08AN/AD	Quad 2-Input AND Gate	DIP-14, SOP-14
IN74HC10AN/AD	MC74HC10AN/AD	Triple 3-Input NAND Gate	DIP-14, SOP-14
IN74HC11AN/AD	MC74HC11AN/AD	Triple 3-Input AND Gate	DIP-14, SOP-14
IN74HC14AN/AD	MC74HC14AN/AD	Hex Schmitt-Trigger Inverter	DIP-14, SOP-14
IN74HC20AN/AD	MC74HC20AN/AD	Dual 4-Input NAND Gate	DIP-14, SOP-14
IN74HC21AN/AD	MC74HC21AN/AD	Dual 4-Input Positive-AND Gate	DIP-14, SOP-14
IN74HC22AN/AD	MC74HC22AN/AD	Dual 4-Input Positive-NAND Gate, OC	DIP-14, SOP-14
IN74HC27AN/AD	MC74HC27AN/AD	Triple 3-Input Positive-NOR Gate	DIP-14, SOP-14
IN74HC30AN/AD	MC74HC30AN/AD	8-Input Positive-NAND Gate	DIP-14, SOP-14
IN74HC32AN/AD	MC74HC32AN/AD	Quad 2-Input OR Gate	DIP-14, SOP-14
IN74HC74AN/AD	MC74HC74AN/AD	Dual D-Type Flip-Flop	DIP-14, SOP-14
IN74HC75AN/AD	MC74HC75AN/AD	Quad Bistable Latch	DIP-16, SOP-16
IN74HC85AN/AD	MC74HC85AN/AD	4-Bit Magnitude Comparator	DIP-16, SOP-16
IN74HC86AN/AD	MC74HC86AN/AD	Quad 2-Input Exclusive-OR Gate	DIP-14, SOP-14
IN74HC109AN/AD	MC74HC109AN/AD	Dual J-K Positive-Edge-Triggered Flip-Flop	DIP-16, SOP-16
IN74HC112AN/AD	MC74HC112AN/AD	Dual J-K Negative-Edge-Triggered Flip-Flop	DIP-16, SOP-16
IN74HC123AN/AD	MC74HC123AN/AD	Dual Monostable Multivibrator with Reset	DIP-16, SOP-16
IN74HC125AN/AD	MC74HC125AN/AD	Quad 3-State Buffer	DIP-14, SOP-14
IN74HC132AN/AD	MC74HC132AN/AD	Quad 2-Input NAND Schmitt-Trigger Inverter	DIP-14, SOP-14
IN74HC138AN/AD	MC74HC138AN/AD	3-8 Decoder/Demultiplexer	DIP-16, SOP-16
IN74HC139AN/AD	MC74HC139AN/AD	Dual 2-4 Decoder/Demultiplexer	DIP-16, SOP-16
IN74HC151AN/AD	MC74HC151AN/AD	8-1 Data Selector/Multiplexer	DIP-16, SOP-16
IN74HC153AN/AD	MC74HC153AN/AD	Dual 4-1 Data Selector/Multiplexer	DIP-16, SOP-16
IN74HC154AN/ADW	MC74HC154AN/ADW	4-16 Decoder/Demultiplexer (3-State)	DIP-24, SOP-24
IN74HC155AN/AD	MM74HC155AN/AD	Dual 2-4 Decoder/Demultiplexer	DIP-16, SOP-16
IN74HC157AN/AD	MC74HC157AN/AD	Quad 2-1 Data Selector/Multiplexer	DIP-16, SOP-16
IN74HC158AN/AD	MC74HC158AN/AD	Quad 2-1 Data Selector/Multiplexer, INV	DIP-16, SOP-16
IN74HC161AN/AD	MC74HC161AN/AD	4-Bit Synchronous Binary Counter, Asynchronous Reset	DIP-16, SOP-16
IN74HC163AN/AD	MC74HC163AN/AD	4-Bit Synchronous Binary Counter, Synchronous Reset	DIP-16, SOP-16
IN74HC164AN/AD	MC74HC164AN/AD	8-Bit Serial-In Parallel-Out Shift Register	DIP-14, SOP-14
IN74HC165AN/AD	MC74HC165AN/AD	8-Bit Parallel-in Serial-Out Shift Register	DIP-16, SOP-16
IN74HC166AN/AD	CD74HC166AN/AD	8-Bit Parallel-in Serial-Out Shift Register	DIP-16, SOP-16
IN74HC174AN/AD	MC74HC174AN/AD	Hex D-Type Flip-Flop	DIP-16, SOP-16
IN74HC175AN/AD	MC74HC175AN/AD	Quad D-Type Flip-Flop	DIP-16, SOP-16
IN74HC192AN/AD	CD74HC192AN/AD	Synchronous Decade Up/Down Counter	DIP-16, SOP-16
IN74HC193AN/AD	CD74HC193AN/AD	4-Bit Synchronous Binary Up/Down Counter	DIP-16, SOP-16
IN74HC221AN/AD	CD74HC221AN/AD	Dual Monostable Multivibrator with Reset	DIP-16, SOP-16
IN74HC240AN/ADW	MC74HC240AN/ADW	Octal Buffer/Line Driver, INV (3-State)	DIP-20, SOP-20
IN74HC241AN/ADW	MC74HC241AN/ADW	Octal Buffer/Line Driver, NINV (3-State)	DIP-20, SOP-20

Standard Logic

IN74HCXXXX Series (continued)

CMOS

Part	Pin to Pin Compatibility	Function	Package
IN74HC244AN/ADW	MC74HC244AN/AD	Octal Buffer/Line Driver NINV (3-State)	DIP-20, SOP-20
IN74HC245AN/ADW	MC74HC245AN/AD	Octal Bus Transceiver, NINV (3-State)	DIP-20, SOP-20
IN74HC251AN/AD	MC74HC251AN/AD	8-1 Data Selector/Multiplexer (3-State)	DIP-16, SOP-16
IN74HC253AN/AD	MC74HC253AN/AD	Dual 4-1 Data Selector/Multiplexer, NINV (3-State)	DIP-16, SOP-16
IN74HC257AN/AD	MC74HC257AN/AD	Quad 2-1 Data Selector/Multiplexer, NINV (3-State)	DIP-16, SOP-16
IN74HC258AN/AD	CD74HC258AN/AD	Quad 2-1 Data Selector/Multiplexer, INV (3-State)	DIP-16, SOP-16
IN74HC273AN/ADW	MC74HC273AN/AD	Octal D-Type Flip-Flop	DIP-20, SOP-20
IN74HC279AN/AD	MC74HC279AN/AD	Quad Set/Reset Latch	DIP-16, SOP-16
IN74HC283AN/AD	CD74HC283AN/AD	4-Bit Full Adder	DIP-16, SOP-16
IN74HC299AN/ADW	MC74HC299AN/AD	8-Bit Universal Shift/Storage Register (3-State)	DIP-20, SOP-20
IN74HC323AN/ADW	MC74HC323AN/AD	8-Bit Universal Shift/Storage Register (3-State)	DIP-20, SOP-20
IN74HC365AN/AD	MC74HC365AN/AD	Hex Buffer/Line Driver (3-State)	DIP-16, SOP-16
IN74HC367AN/AD	MC74HC367AN/AD	Hex Buffer/Line Driver (3-State)	DIP-16, SOP-16
IN74HC373AN/ADW	MC74HC373AN/AD	Octal D-Type Latch (3-State)	DIP-20, SOP-20
IN74HC374AN/ADW	MC74HC374AN/AD	Octal D-Type Flip-Flop (3-State)	DIP-20, SOP-20
IN74HC393AN/AD	MC74HC393AN/AD	Dual 4-Bit Binary Counter	DIP-14, SOP-14
IN74HC533AN/ADW	MC74HC533AN/AD	Octal D-Type Latch, INV (3-State)	DIP-20, SOP-20
IN74HC534AN/ADW	MC74HC534AN/AD	Octal D-Type Flip-Flop, NINV (3-State)	DIP-20, SOP-20
IN74HC573AN/ADW	MC74HC573AN/AD	Octal Transparent Latch (3-State)	DIP-20, SOP-20
IN74HC574AN/ADW	MC74HC574AN/AD	Octal D-Type Flip-Flop, NINV (3-State)	DIP-20, SOP-20
IN74HC595AN/AD	MC74HC595AN/AD	8-Bit Shift Register with Output Latch	DIP-16, SOP-16
IN74HC597AN/AD	MC74HC597AN/AD	8-Bit Shift Register with Input Latch	DIP-16, SOP-16
IN74HC620AN/ADW	SN74HC620AN/AD	Octal Bidirectional Bus Transceiver, INV	DIP-20, SOP-20
IN74HC623AN/ADW	SN74HC623AN/AD	Octal Bidirectional Bus Transceiver, NINV	DIP-20, SOP-20
IN74HC640AN/ADW	MC74HC640AN/AD	Octal Bus Transceiver (3-State)	DIP-20, SOP-20
IN74HC651AN/ADW	CD74HC651AN/AD	Octal Bus Transceiver/Register (3-State)	DIP-24, SOP-24
IN74HC652AN/ADW	CD74HC652AN/AD	Octal Bus Transceiver/Register, NINV (3-State)	DIP-24, SOP-24
IN74HC874AN/ADW	own	Dual 4-Bit D-Type Flip Flop	DIP-24, SOP-24
IN74HC4015AN/AD	MC74HC4015AN/AD	Dual 4-Bit Static Shift Register	DIP-16, SOP-16
IN74HC4046AN/AD	MC74HC4046AN/AD	Phase-Locked Loop	DIP-16, SOP-16
IN74HC4051AN/ADW	MC74HC4051AN/AD	8-Channel Analog Multiplexer/Demultiplexer	DIP-16, SOP-16
IN74HC4052AN/ADW	MC74HC4052AN/AD	Dual 4-Channel Analog Multiplexer/Demultiplexer	DIP-16, SOP-16
IN74HC4053AN/ADW	MC74HC4053AN/AD	Triple 2-Channel Analog Multiplexer/Demultiplexer	DIP-16, SOP-16
IN74HC4060AN/ADW	SN74HC4060AN/ADW	14-Stage Asynchronous Binary Counters and Oscillators	DIP-16, SOP-16
IN74HC4094AN/AD	CD74HC4094AN/AD	8-Bit Shift and Bus Register	DIP-16, SOP-16

IN74HCTXXX Series

CMOS

Part	Pin to Pin Compatibility	Function	Package
IN74HCT00AN/AD	MC74HCT00AN/AD	Quad 2-Input NAND Gate	DIP-14, SOP-14
IN74HCT02AN/AD	MC74HCT02AN/AD	Quad 2-Input NOR Gate	DIP-14, SOP-14
IN74HCT04AN/AD	MC74HCT04AN/AD	Hex Inverter	DIP-14, SOP-14
IN74HCT08AN/AD	MC74HCT08AN/AD	Quad 2-Input AND Gate	DIP-14, SOP-14
IN74HCT10AN/AD	MC74HCT10AN/AD	Triple 3-Input NAND Gate	DIP-14, SOP-14
IN74HCT14AN/AD	MC74HCT14AN/AD	Hex Schmitt-Trigger Inverter	DIP-14, SOP-14
IN74HCT20AN/AD	MC74HCT20AN/AD	Dual 4-Input NAND Gate	DIP-14, SOP-14
IN74HCT21AN/AD	MC74HCT21AN/AD	Dual 4-Input Positive-AND Gate	DIP-14, SOP-14
IN74HCT22AN/AD	MC74HCT22AN/AD	Dual 4-Input Positive-NAND Gate, OC	DIP-14, SOP-14
IN74HCT27AN/AD	MC74HCT27AN/AD	Triple 3-Input Positive-NOR Gate	DIP-14, SOP-14
IN74HCT30AN/AD	MC74HCT30AN/AD	8-Input Positive-NAND Gate	DIP-14, SOP-14
IN74HCT32AN/AD	MC74HCT32AN/AD	Quad 2-Input OR Gate	DIP-14, SOP-14
IN74HCT74AN/AD	MC74HCT74AN/AD	Dual D-Type Flip-Flop	DIP-14, SOP-14
IN74HCT85AN/AD	MC74HCT85AN/AD	4-Bit Magnitude Comparator	DIP-16, SOP-16
IN74HCT86AN/AD	MC74HCT86AN/AD	Quad 2-Input Exclusive-OR Gate	DIP-14, SOP-14
IN74HCT109AN/AD	MC74HCT109AN/AD	Dual J-K Positive-Edge-Triggered Flip-Flop	DIP-16, SOP-16
IN74HCT125AN/AD	MC74HCT125AN/AD	Quad 3-State Buffer	DIP-14, SOP-14
IN74HCT126AN/AD	MC74HCT126AN/AD	Quad 3-State Buffer	DIP-14, SOP-14
IN74HCT132AN/AD	MC74HCT132AN/AD	Quad 2-Input NAND Schmitt-Trigger Inverter	DIP-14, SOP-14
IN74HCT138AN/AD	MC74HCT138AN/AD	3-8 Decoder/Demultiplexer	DIP-16, SOP-16
IN74HCT139AN/AD	MC74HCT139AN/AD	Dual 2-4 Decoder/Demultiplexer	DIP-16, SOP-16
IN74HCT151AN/AD	MC74HCT151AN/AD	8-1 Data Selector/Multiplexer	DIP-16, SOP-16
IN74HCT153AN/AD	MC74HCT153AN/AD	Dual 4-1 Data Selector/Multiplexer	DIP-16, SOP-16
IN74HCT155AN/AD	MM74HCT155AN/AD	Dual 2-4 Decoder/Demultiplexer	DIP-16, SOP-16
IN74HCT157AN/AD	MC74HCT157AN/AD	Quad 2-1 Data Selector/Multiplexer	DIP-16, SOP-16
IN74HCT163AN/AD	MC74HCT163AN/AD	4-Bit Synchronous Binary Counter, Synchronous Reset	DIP-16, SOP-16
IN74HCT164AN/AD	MC74HCT164AN/AD	8-Bit Serial-in Parallel-Out Shift Register	DIP-14, SOP-14
IN74HCT165AN/AD	MC74HCT165AN/AD	8-Bit Parallel-in Serial-Out Shift Register	DIP-16, SOP-16
IN74HCT174AN/AD	MC74HCT174AN/AD	Hex D-Type Flip-Flop	DIP-16, SOP-16
IN74HCT240AN/ADW	MC74HCT240AN/AD	Octal Buffer/Line Driver, INV (3-State)	DIP-20, SOP-20
IN74HCT241AN/ADW	MC74HCT241AN/AD	Octal Buffer/Line Driver, NINV (3-State)	DIP-20, SOP-20
IN74HCT244AN/ADW	MC74HCT244AN/AD	Octal Buffer/Line Driver NINV (3-State)	DIP-20, SOP-20
IN74HCT245AN/ADW	MC74HCT245AN/AD	Octal Bus Transceiver, NINV (3-State)	DIP-20, SOP-20
IN74HCT251AN/AD	MC74HCT251AN/AD	8-1 Data Selector/Multiplexer, INV (3-State)	DIP-16, SOP-16
IN74HCT273AN/ADW	MC74HCT273AN/AD	Octal D-Type Flip-Flop	DIP-20, SOP-20
IN74HCT279AN/AD	MC74HCT279AN/AD	Quad Set/Reset Latch	DIP-16, SOP-16
IN74HCT283AN/AD	CD74HCT283AN/AD	4-Bit Adder	DIP-16, SOP-16
IN74HCT299AN/AD	MC74HCT299AN/AD	8-Bit Universal Shift/Storage Register (3-State)	DIP-20, SOP-20
IN74HCT323AN/AD	MC74HCT323AN/AD	8-Bit Universal Shift/Storage Register (3-State)	DIP-20, SOP-20
IN74HCT373AN/ADW	MC74HCT373AN/AD	Octal D-Type Latch (3-State)	DIP-20, SOP-20
IN74HCT374AN/ADW	MC74HCT374AN/AD	Octal D-Type Flip-Flop (3-State)	DIP-20, SOP-20
IN74HCT573AN/ADW	MC74HCT573AN/AD	Octal Transparent Latch (3-State)	DIP-20, SOP-20
IN74HCT574AN/ADW	MC74HCT574AN/AD	Octal D-Type Flip-Flop, NINV (3-State)	DIP-20, SOP-20
IN74HCT620AN/DW	SN74HCT620AN/D	Octal Bidirectional Bus Transceiver, INV	DIP-20, SOP-20
IN74HCT623AN/DW	own	Octal Bidirectional Bus Transceiver, NINV	DIP-20, SOP-20
IN74HCT640AN/ADW	own	Octal Bus Transceiver (3-State)	DIP-20, SOP-20
IN74HCT874AN/ADW	MC74HCT874AN/AD	Dual 4-Bit D-Type Flip-Flop	DIP-24, SOP-24

Standard Logic

IN74XXX Series

TTL

Part	Pin to Pin Compatibility	Function	Package
IN7406N/D	SN7406N/D	Hex Inverter/Buffer with High-Voltage Output, OC	DIP-14, SOP-14
IN7407N/D	SN7407N/D	Hex Buffer with High Voltage Output, OC	DIP-14, SOP-14

IN74LSXXX Series

LS

Part	Pin to Pin Compatibility	Function	Package
IN74LS04N/D	own	Hex Inverter	
IN74LS05N/D	CD74LS05N/D	Hex Inverter, OC	DIP-14, SOP-14
IN74LS06N/D	CD74LS06N/D	Hex Inverter/Buffer with High-Voltage Output, OC	DIP-14, SOP-14
IN74LS07N/D	CD74LS07N/D	Hex Buffer with High-Voltage Output, OC, 30 V	DIP-14, SOP-14
IN74LS14N/D	CD74LS14N/D	Hex Schmitt-Trigger Inverter	DIP-14, SOP-14
IN74LS86N/D	CD74LS86N/D	Quad 2-Input Exclusive-OR Gate	DIP-14, SOP-14
IN74LS138N/D	CD74LS138N/D	3-8 Decoder/Demultiplexer	DIP-16, SOP-16
IN74LS157N/D	CD74LS157N/D	Quad 2-1 Data Selector/Multiplexer	DIP-16, SOP-16
IN74LS161AN/AD	CD74LS161AN/AD	4-Bit Binary Counter	DIP-16, SOP-16
IN74LS164N/D	CD74LS164N/D	8-Bit Parallel-Out Shift Register	DIP-14, SOP-14
IN74LS244N/DW	CD74LS244ND,W	Octal Buffer/Line Driver, NINV (3-State)	DIP-20, SOP-20
IN74LS245N/DW	CD74LS245N/DW	Octal Bus Transceiver, NINV (3-State)	DIP-20, SOP-20



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